

## UTAH DIVISION OF OIL AND GAS CONSERVATION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE X WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB. REPORT/abd. \_\_\_\_\_\* 1-20-78 Application Rescinded US 65 (114)DATE FILED 10-20-76

LAND: FEE &amp; PATENTED

STATE LEASE NO.

PUBLIC LEASE NO. U-16870

INDIAN

DRILLING APPROVED: 10-19-76

SPUDDED IN:

COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION: 6137' 91DATE ABANDONED: LA'D 1-20-78FIELD: Wildcat 3/86

UNIT:

COUNTY: EmeryWELL NO. Ferron Creek #1API NO: 43-015-30045LOCATION 668'FT. FROM (N) X30 LINE.595'FT. FROM (E) XW LINE.NE NE1/4 - 1/4 SEC. 18

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

206

7E

18

FOSSIL PETROLEUM CORP.

# FILE NOTATIONS

Entered in NID File

✓

Checked by Chief

Entered On S R Sheet

\_\_\_\_\_

Copy NID to Field Office

\_\_\_\_\_

Location Map Pinned

\_\_\_\_\_

Approval Letter

\_\_\_\_\_

Card Indexed

✓

Disapproval Letter

\_\_\_\_\_

IWR for State or Fee Land

\_\_\_\_\_

## COMPLETION DATA:

Date Well Completed

\_\_\_\_\_

Location Inspected

\_\_\_\_\_

OW

WW

TA

\_\_\_\_\_

Bond released

GW

OS

PA

\_\_\_\_\_

State of Fee Land

\_\_\_\_\_

## LOGS FILED

Driller's Log

\_\_\_\_\_

Electric Logs (No. )

\_\_\_\_\_

E

I

E-I

CR

GR-N

Micro

Lat

Mi-L

Sonic

Others

\_\_\_\_\_

LWP  
790

1-22-78. Application Rescinded U.S.G.S. KW

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL

WELL ☒

GAS

WELL ☐OTHER ☐

## 2. NAME OF OPERATOR

Fossil Petroleum Corp.

## 3. ADDRESS OF OPERATOR

Suite 2160M, 8350 N. Central Exp., Dallas Texas

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

NE.NE.Sec.18,T.20 S.,R.7 E.,S.L.M.

At proposed prod. zone 668' from N-line &amp; 595' from E-line

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

2 miles west of Ferron, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

595'

## 16. NO. OF ACRES IN LEASE

650

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

7800'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6137'grd; 6150'K.B.

## 22. APPROX. DATE WORK WILL START\*

Nov.1,1976

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 5/8"	10 3/4"	40.50#	250'	100 sks
8 3/4"				

It is planned to drill a well at the above location to test the oil and/or gas potential of the Kaibab and Coconino formations. The well will be drilled with rotary tools, using mud for circulation. Approx. 250 ft. of 10 3/4", 40.50#, H-40 casing will be set and cemented (with returns to the surface) for surface casing. A casing head and blowout preventor will be installed on the top of the casing. Fill and kill lines will be connected below the blind and pipe rams of the blowout preventor. An 8 3/4" hole will be drilled below the surface casing. An AFE for the planned well is attached hereto. In the event of production, 5 1/2", 15.50 & 17.00#, H-40 casing will be run and cemented thru the potential pay zones. See attached 12-pt. plan.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

*H. Don Gingley*

TITLE

Cons. Geol.

DATE

Oct.6,1976

(This space for Federal or State office use)

PERMIT NO.

*43-015-30075*

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**W. DON QUIGLEY**

OIL AND MINERALS CONSULTANT

803 PHILLIPS PETROLEUM BLDG. - SALT LAKE CITY, UTAH 84101

August 31, 1976

**PROGNOSIS FOR FERRON WELL****NE.NE.Sec.18-20S-7E****EMERY COUNTY, UTAH****Location: NE.NE., Sec.18,T.20 S.,R.7 E.,S.L.M., Emery County****Elevation: Approx.6130' grd.****Surface Casing: 250 ft. of 10 3/4", 40.50#,H-40, S.T.C.; set and cemented with returns to the surface.****Expected formation tops:**

<u>Formation</u>	<u>Depth to top</u>	<u>Thickness</u>	<u>Datum</u>
Mancos	Surface	1690'	6140'K.B.
Ferron*	1690'	310'	4450'
Tununk	2000'	470'	4140'
Dakota	2470'	60'	3670'
Cedar Mt.	2530'	135'	3610'
Morrison	2665'	650'	3475'
Summerville	3315'	320'	2825'
Curtis	3635'	120'	2505'
Entrada	3755'	800'	2385'
Carmel	4555'	675'	1585'
Navajo	5230'	500'	910'
Kayenta	5730'	160'	410'
Wingate	5890'	300'	250'
Chinle	6190'	160'	-50'
Shinarump*	6350'	90'	-210'
Moenkopi*	6440'	900'	-300'
Kaibab*	7340'	150'	-1200'
Coconino*	7490'	----	-1350'

**Total Depth: 7800'****\* Formations and members which may have hydrocarbons.**

1. It is planned to drill an 8 3/4" hole below the surface casing to provide for the possibility of running an intermediate string of 7" casing. It is not felt that this will be necessary; but in the event of hole trouble or if a decision is made to drill into the Kaibab and Coconino formations

with air, it will be possible to do so.

2. Normal drilling mud will be used for circulation with attention being paid to water loss, viscosity, weight, and pH. The water loss should be kept below 6cc. per 15 min. with 100# p.s.i. Viscosity should be kept above 50 (1 qt. thru viscosity funnel in 50 secs.); and pH should not run above 9. Mud weight should be kept below 10#/ gal.
3. All hydrocarbon shows are to be drill-stem-tested with initial and final flow and shut-in periods. Final flow periods should not be less than one hour and final shut-in periods should not be less than 1½ hours. It is estimated that four DST's may be required.
4. Run IES log prior to setting intermediate casing, if it becomes necessary for one reason or another.
5. It is not anticipated that any coring will be necessary. Electric log data should be sufficient, together with the sample and DST data, for proper evaluation of the pay sections.
6. Samples of the cuttings should be taken at 10-ft. intervals, starting at 1000 ft. and continuing until total depth is reached. These samples will be carefully analyzed and logged by an experienced geologist. It is not felt that a mud-logging unit will be necessary with a competent geologist.
7. Electric logs will include an induction-electrical log from bottom to top of the hole; and a gamma-density and compensated neutron porosity log over the potential pay sections.

8 Anticipated costs of the well are as follows:

Surveying and permit costs	\$250.00
Road and location	2750.00
Surface casing and cementing	4000.00
Casing head and valves	850.00
Drilling contract (45 days at \$3200)	145000.00
Water hauling	10000.00
Mud and chemicals	18000.00
DST's (four)	6500.00
Electric logs	4800.00
Geologist	5000.00
Casing (5½", 15.50# and 17.00#) and slips	35000.00
Casing crew	2000.00
Cementing casing	2850.00

Miscellaneous  
Total Costs

13,000.00  
\$250,000.00

Approximately 10% should be added for contingencies which would make a total of \$275,000 which should be planned for the well.

*W. Don Quigley*  
W. Don Quigley  
Consulting Geologist  
AAPG. Cert. #1296

SURFACE USE & OPERATIONS PLAN  
FOR

FOSSIL PETROLEUM CORPORATION  
FERRON CREEK 31 WELL  
NE.NE.SEC.18-20S-7E  
EMERY, COUNTY, UTAH

1. A survey plat showing the location of the proposed well site is attached (See Plat No.1). Map No.1 shows the route to the well site from the town of Ferron, Utah. The location is only 2 miles west of the town. This map shows all main and secondary roads in the surrounding area. The well site is in an area which is rolling hills with small washes in between. These will be levelled off and filled in to make the location. The surface rocks are Mancos shale and there is practically no vegetation on the surface.
2. Planned Access Roads: A detailed plat showing the route and details of the access road is attached (See Plat No.2). The new road required to reach the location is only  $\frac{1}{2}$  mile long and begins at a point on a small secondary road along a dry irrigation ditch, which is about  $\frac{1}{2}$  mile from the main hard surfaced road leading west from the town of Ferron. None of the secondary road or the new proposed road will be across cultivated lands. Half of the new road is on fee lands. A 20% grade and 10' cut will be required in the new road as shown.
3. Location of Existing Wells: See attached map.
4. Location of Production Equipment: A plan for the anticipated production equipment, if the well is successful, is submitted on Plat No.3. When production ceases this equipment will be removed and the land surface graded, levelled, and cleaned.
5. Water Supply: Water for drilling operations will be available from the nearby Ferron Creek. (See attached map). This creek is less than one mile from the location. The water will be hauled to the location by truck.
6. Road material: No additional road material should be required. The natural material on site and in place should be sufficient. In the event of severe wet weather, it may become necessary to place some gravel on the secondary and access road.
7. Waste Material: An unlined reserve pit and burn pit will be constructed at the well site as shown on Plat No.4. All excess water, mud, and drill cuttings will be deposited into the reserve pit. Burnable material and garbage will be put into the burn pit, which will be fenced to prevent trash from being blown around the location. Both the pits will be folded-in

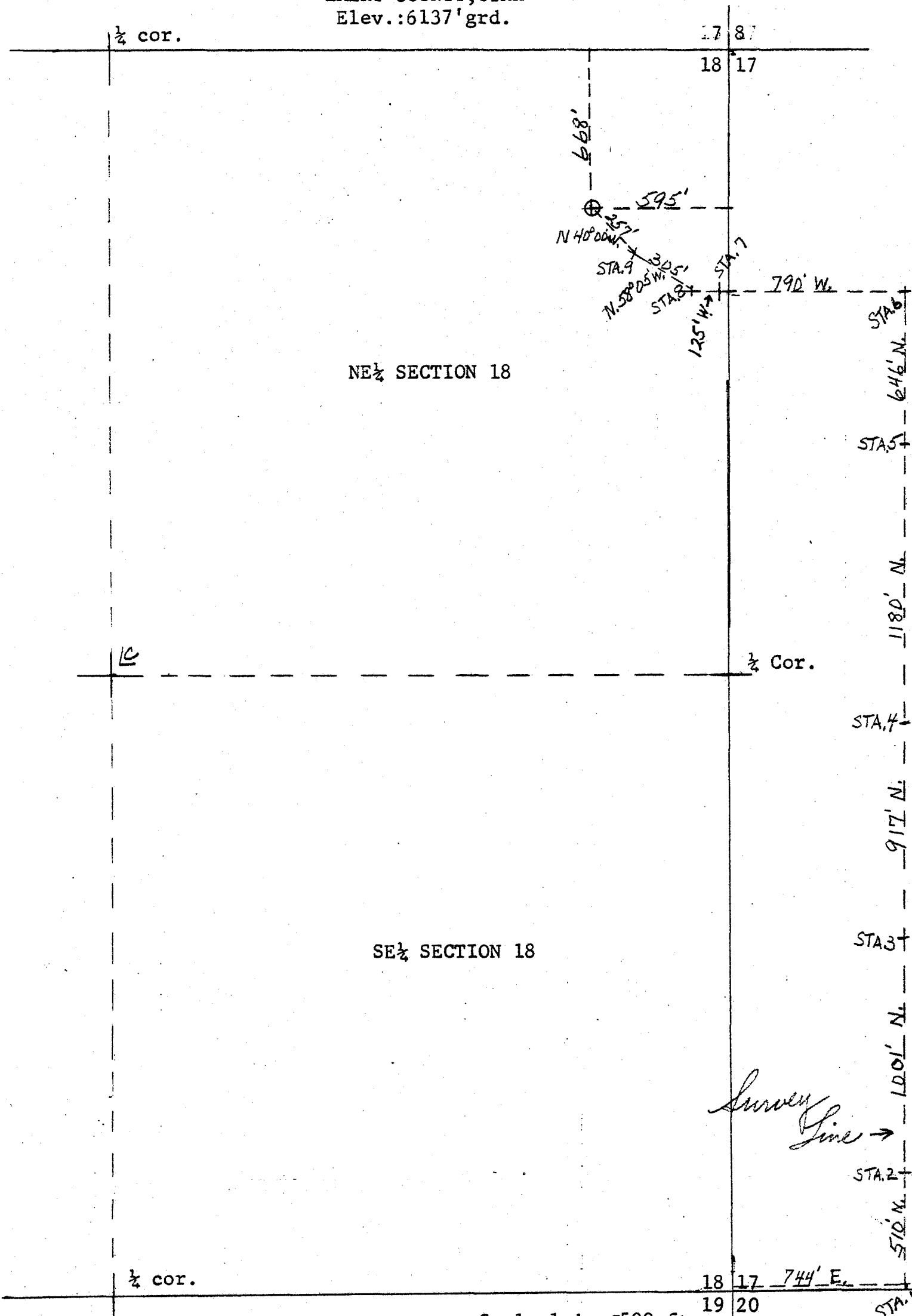


and covered as soon as feasible after cessation of drilling operations. Since there is no topsoil on the well site, these pits can be folded-in without sorting.

8. Camp Facilities and Airstrips: None will be needed.
9. Well Site Layout: A plan for the drilling equipment layout required for the drilling operations is submitted on Plat No. 4. The approx. dimensions of the drill site are shown. The drill site is quite irregular and rolling and will have to be levelled and filled in. The north and east sides of the location will have about 10' cuts; but this is Mancos shale and should pose no great problem. The pits will be unlined natural pits with about 4-ft. banks.
10. Restoration: After the drilling operations are concluded and the equipment removed, and if the well is not successful, the well site will be cleaned, levelled and restored to normal. The access road will be levelled, graded and barred on the slopes. Reseeding would be useless because of the lack of vegetation. If the well is successful, the site will be prepared for the placement of the production equipment. The road to the site from the main road will have to be gravelled and ditched to make it serviceable all year. In the event the reserve pit is full of mud and water, it will be fenced and allowed to evaporate before covering.
11. Land Description: See items 1 and 9 above.
12. Representative: The operator's representative at the well site will probably be W. Don Quigley, Consultant of Salt Lake City. The drilling contractor has not been chosen yet, but will probably be Willard Pease Drilling Co. of Grand Junction, Colorado.
13. Certification: I hereby certify that I or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed will be performed by competent contractors engaged by Fossil Petroleum Corp. in conformity with this plan and terms and conditions under which it is approved.  
Date: Oct. 5, 1976

W. Don Quigley

LOCATION PLAT FOR  
 FOSSIL PETROLEUM CORPORATION  
 FERRON CREEK #1 WELL  
 NE.NE.SEC.18-20S-7E  
 EMERY COUNTY, UTAH  
 Elev.: 6137' grd.

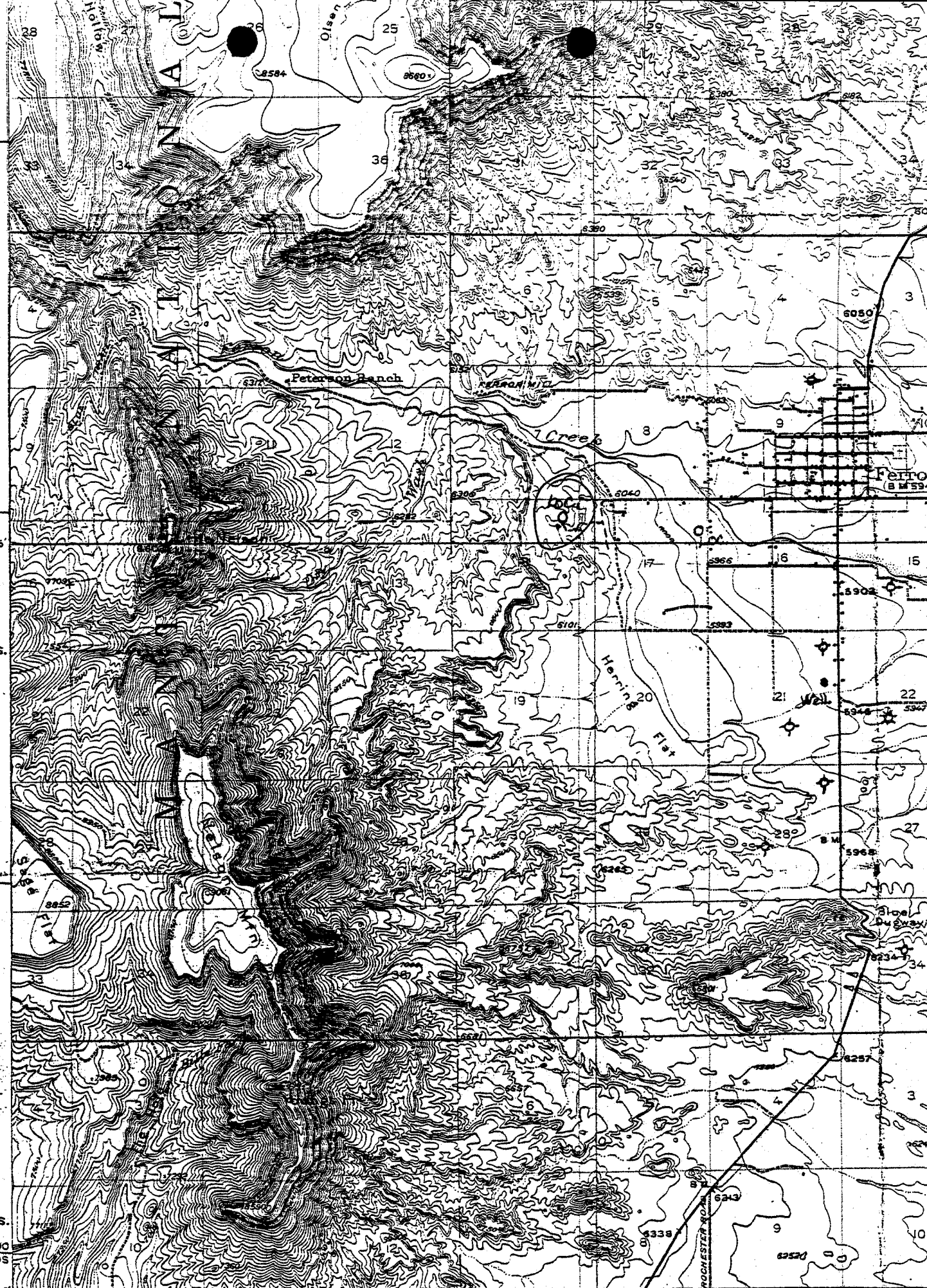


I, W. Don Quigley, do hereby  
 certify that this plat was  
 plotted from notes of a field  
 survey made by me on Sept. 22, 1976

Scale: 1 in. = 500 ft.  
 Date: Oct. 1, 1976  
 Surveyed by: W. Don Quigley

*W. Don Quigley*

PLAT NO. 1



T. 20 S.

T. 21 S.

1820 000  
YARDS

39° 00'

R. 6 E.

1170 000 YARDS

Topography by W.B. Upton, Jr. and E.B. Hill.  
Surveyed in 1922-1923.

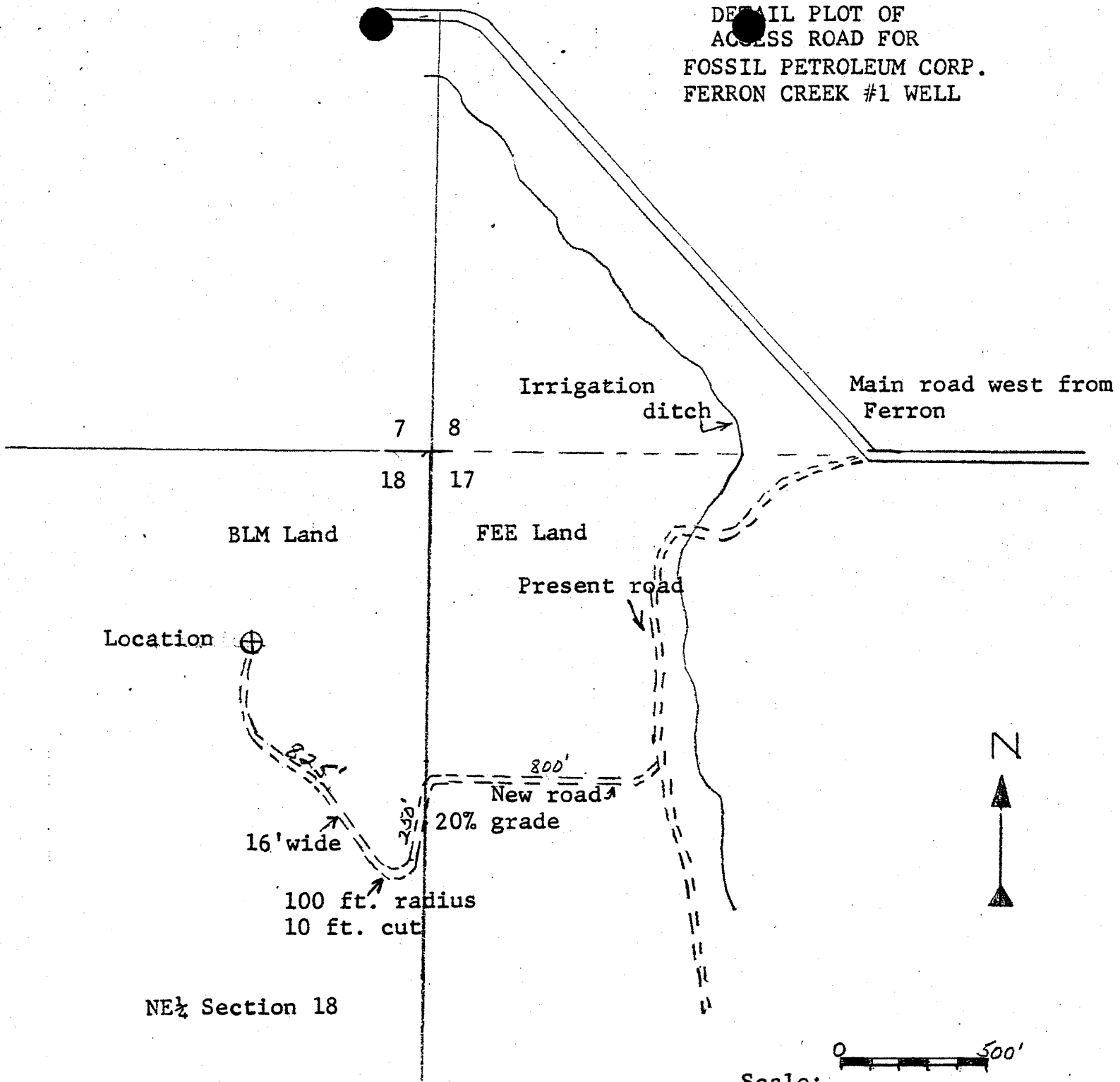
MAP No. 1

EMERY 10 MI.  
LOS ANGELES 525 MI.

R. 7 E.

Scale 1:250,000

DETAIL PLOT OF  
ACCESS ROAD FOR  
FOSSIL PETROLEUM CORP.  
FERRON CREEK #1 WELL

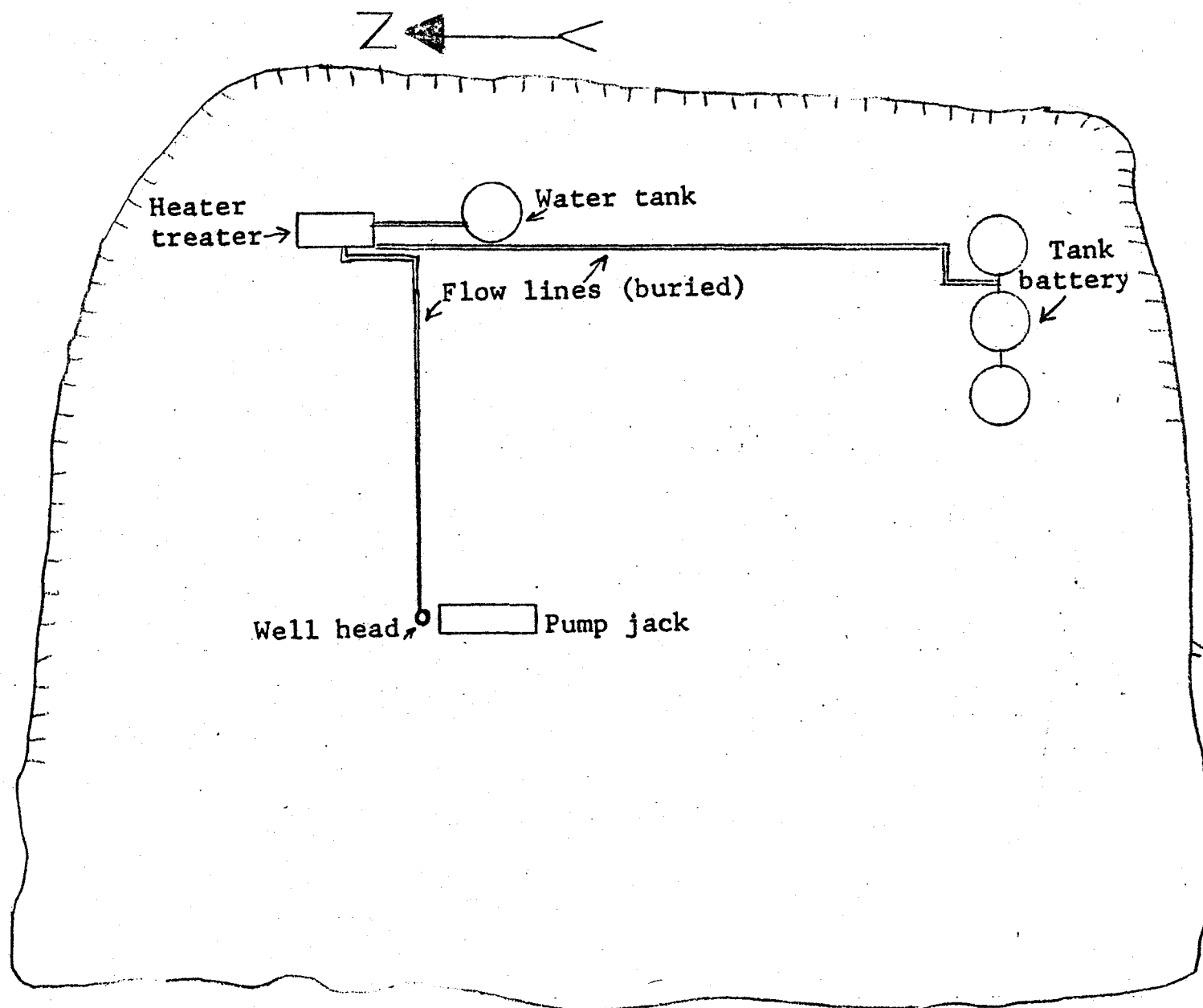


Scale:  
Date: Oct. 1, 1976

*W. Don Quigley*  
W. Don Quigley

PLAT NO. 2

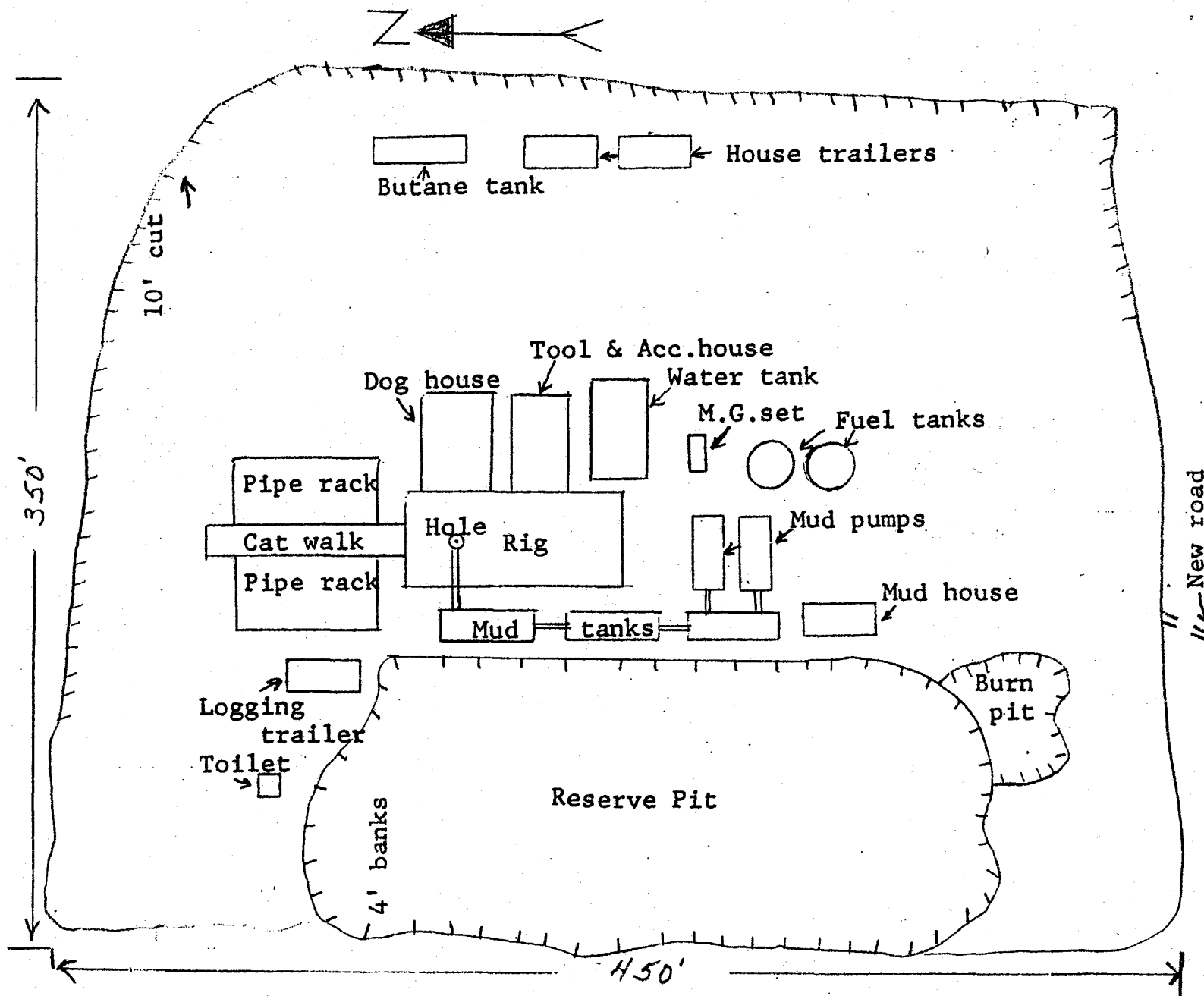
PLAN FOR COMPLETION EQUIPMENT  
FOSSIL PETROLEUM CORPORATION  
FERRON CREEK #1 WELL  
NE.NE.SEC.18-20S-7E  
EMERY COUNTY, UTAH



Scale; 1 in. = 60 ft.

PLAT NO.3

LAYOUT OF DRILLING EQUIPMENT  
FOSSIL PETROLEUM CORP.  
FERRON CREEK #1 WELL  
NE. NE. SEC. 18-20S-7E.  
EMERY COUNTY, UTAH



Scale: 1 in. = 60 ft.

Plat No. 4

WELL CONTROL EQUIPMENT  
FOR  
FOSSIL PETROLEUM CORP.  
FERRON CREEK #1 WELL  
NE.NE.SEC.18-20S-7E  
EMERY COUNTY, UTAH

1. Surface Casing:

- A. Hole size for surface casing is 13 5/8".
- B. Setting depth for surface casing is approx. 250 ft.
- C. Casing specs. are: 10 3/4" O.D., H-40, 40.50#, STC
- D. Anticipated pressure at setting depth is approx. 60#.
- E. Casing will be run using three centralizers and a guide shoe, and will be cemented with 100 sks of cement with returns to the surface.
- F. Top of casing will be about 18" below ground level.

2. Casing Head:

- Flange size: 10; API pressure rating: 3000# W.P.; Series 900; Cameron, OCT, or equivalent; new or used; equipped with two 2" ports with high pressure nipples and 3000# W.P. ball valves.

3. Intermediate Casing: Probably none.

4. Blowout Preventer:

- A. Double rams, hydraulic, one set of blind rams and one set of pipe rams for 4 1/2" drill pipe; 10" flange, 3000# W.P.; Series 900; equipped with mechanical wheels and rod for back-up; set on top of casing head flange and securely bolted down. Initially rams will be pressure tested for not less than 2000# for leaks and will be checked and closed once a day while drilling operations are underway.
- B. Fill and kill lines (2" tubing or heavy duty line pipe) with manifold are to be connected to the 2" valves on the casing head.

5. Auxilliary Equipment:

A float valve is to be used in the bottom drill collar at all times. The standpipe valve will be kept in good working condition, and a safety valve that can be stabbed into the top of the drill pipe or drill collars will be kept on the derrick floor in a handy position at all times.

6. Anticipated Pressures:

The shut-in pressures of the ~~xxxxxx~~ potential pay zones found in the Ferron, Navajo, Shinarump, Moenkopi, Kaibab, and Coconino formations at the corresponding depths are as follows:

Ferron	-----	1690'	-----	500#
Navajo	-----	5230'	-----	1850#
Shinarump	-----	6350'	-----	2100#
Moenkopi	-----	6440'	-----	2200#
Kaibab	-----	7340'	-----	2450# *
Coconino	-----	7490'	-----	2500# *

\* These pressures are based on DST's taken on other wells in the area.

7. Drilling Fluids:

Normal fresh water mud with gel and chemicals will be used for circulation. The mud weight will be kept at about 9-10 lbs./gal.; and the viscosity will be kept around 50 , and the water loss kept below 6 cc., if possible. This weight and associated hydrostatic pressure should keep the well under control. No abnormal pressures are known in the area, nor has there been any indication of sour gas in the nearby wells.

8. Production Casing:

- A. Hole size for the production casing will be 8 3/4"
- B. Approx. setting depth will be about 7800'
- C. Casing specs. are: 2000' of 5½" O.D., 17.00#, N-80 casing, and 5800' of 5½" O.D., 15.50#, J-55 casing with guide shoe and float collar and about ten centralizers at the proper places, cemented with 200 sks of regular, type G cement with 10% salt.
- D. The anticipated pressure at setting depth should not be greater than 2600#.

*W. Don Quigley*  
W. Don Quigley



DIVISION OF OIL, GAS, AND MINING

\*FILE NOTATIONS\*

Date: Oct. 18 -  
Operator: Fossil Petroleum Corp.  
Well No: Fossil Creek Fed. #1  
Location: Sec. 18 T 20S R. 7E County: Cherokee Co.

File Prepared

☒

Entered on N.I.D.

☒

Card Indexed

☒

Completion Sheet

☒

Checked By:

Administrative Assistant:

[Signature]

Remarks:

No other wells in Sec.

Petroleum Engineer/Mined Land Coordinator:

OK [Signature]

Remarks:

Director:

7

Remarks:

Include Within Approval Letter

Bond Required

☒

Mined Land

Survey Plat Required

☐

Order No.

☐

Blowout Prevention Equipment

☐

Rule C-3(c) Topographical exception/company owns or controls acreage within a 660' radius of proposed site

☐

O.K. Rule C-3

☒

O.K. In \_\_\_\_\_ Unit

☐

Other:

☐☒

Letter Written

October 19, 1976

Fossil Petroleum Corporation  
Suite 2160M  
8350 N. Central Expy.  
Dallas, Texas 75206

Re: Well No. Ferron Creek Federal #1  
Sec. 18, T. 20 S, R. 7 E,  
Emery County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-015-30045.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
DIRECTOR

/sw

cc: U.S. Geological Survey

K  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Fossil Petroleum Corp.

## 3. ADDRESS OF OPERATOR

Suite 2160M, 8350 N. Central Expy., Dallas Texas 75206

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

NE.NE.Sec.18,T.20 S.,R.7 E.,S.L.M.

At proposed prod. zone 668' from N-line &amp; 595' from E-line

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

2 miles west of Ferron, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

595'

(Also to nearest drig. unit line, if any)

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 16. NO. OF ACRES IN LEASE

650

## 19. PROPOSED DEPTH

7800'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6137'grd; 6150'K.B.

## 22. APPROX. DATE WORK WILL START\*

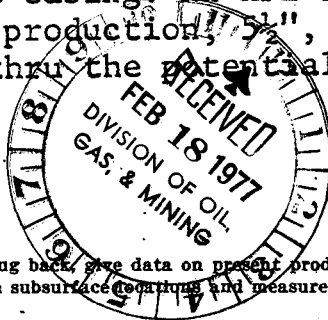
Nov. 1, 1976

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 5/8"	10 3/4" (new)	40.50#	250'	100 sks
8 3/4"	5 1/2" (new)			

It is planned to drill a well at the above location to test the oil and/or gas potential of the Kaibab and Coconino formations. The well will be drilled with rotary tools, using mud for circulation. Approx. 250 ft. of 10 3/4", 40.50#, H-40 casing will be set and cemented (with returns to the surface) for surface casing. A casing head and blowout preventor will be installed on the top of the casing. Fill and kill lines will be connected below the blind and pipe rams of the blowout preventor. An 8 3/4" hole will be drilled below the surface casing. An AFE for the planned well is attached hereto. In the event of production, 15.50 & 17.00#, H-40 casing will be run and cemented thru the potential pay zones. See attached 12-pt. plan.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface geology and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

*H. Don Gingley*

TITLE

Cons. Geol.

DATE

Oct. 6, 1976

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY (ORIG. SGD.) E. W. GUYNN

TITLE DISTRICT ENGINEER

DATE

FEB 17 1977

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

Approval Notice - UTAH STATE O-G-M

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Gossil Petroleum Corp. Fenon Creek # 1	668 FNL, 595 FEL, sec 18, T. 20 S., R. 7 E., SLM, Emery County, Utah	U-16870
<p>1. Stratigraphy and Potential Surface rocks are Mancos Fm. The Kaibab-Coconino Oil and Gas Horizons. Test should bottom at 7,800' TD. Important logs are estimated as: Fenon SS - 1,700'; Dakota - 2470'; Navajo - 5230'; Shinarump Cong - 6350'; Moenkopi - 6450'; Kaibab - 7350'; Coconino - 7500'. Hydrocarbons may be encountered in Fenon SS, Shinarump Cong., and Moenkopi in addition to the targeted tests.</p> <p>2. Fresh Water Sands. None likely; small possibility fresh H<sub>2</sub>O in Dakota.</p> <p>3. Other Mineral Bearing Formations. Coal beds of commercial thickness (Coal, Oil Shale, Potash, Etc.) and quality are likely to be encountered within the Fenon Sandstone - 1,700 through about 2,000' below KB.</p> <p>4. Possible Lost Circulation Zones. Unknown</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. unknown</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Unknown</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Unknown But generally Kaibab and Coconino are competent.</p> <p>8. Additional Logs or Samples Needed. Logs adequate to identify Coal needed through Fenon Sandstone ~ 1650 - 2,050' below KB.</p> <p>9. References and Remarks USGS Bull 415, p. 215.</p>		
<p>Date: 11-22-76</p> <p align="right">Donald C. Alvord</p>		

0	ENHANCES
	NO IMPACT
/	MINOR IMPACT
X	MAJOR IMPACT

Fossil Petr. Corp.		Construction	Pollution	Drilling Production	Transport Operations	Accidents	Others
H / NENE		Roads, bridges, airports	Burning, noise, junk disposal	Well drilling	Trucks	Spills and leaks	
Sec 18 - 20s - 7E		Transmission lines, pipelines	Liquid effluent discharge	Fluid removal (Prod. wells, facilities)	Pipelines		
U-16870		Dams & impoundments	Subsurface disposal	Secondary Recovery	Others		
Emergy Co. Utah		Others (pump stations, compressor stations, etc.)	Others (toxic gases, noxious gas, etc.)	Noise or obstruction of scenic views			
BLM - Young				Mineral processing (ext. facilities)			
USC-S - Alexander				Others			
Fossil - Quigley							
<input type="checkbox"/>	ENHANCES						
<input type="checkbox"/>	NO IMPACT						
<input type="checkbox"/>	MINOR IMPACT						
<input checked="" type="checkbox"/>	MAJOR IMPACT						
Land Use	Forestry						
	Grazing						
	Wilderness						
	Agriculture						
	Residential-Commercial						
	Mineral Extraction						
	Recreation						
	Scenic Views						
	Parks, Reserves, Monuments						
	Historical Sites						
	Unique Physical Features						
Flora & Fauna	Birds						
	Land Animals						
	Fish						
	Endangered Species						
	Trees, Grass, Etc.						
Phy. Charact.	Surface Water						
	Underground Water						
	Air Quality						
	Erosion						
	Other						
	Effect On Local Economy						
	Safety & Health						
Others	Other						

Lease

U-16870

Well No. & Location #1 NENE Sec 18 - 20 - 7E

Emery County Utah

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

Fossil Petroleum Corp - PROPOSES TO DRILL AN OIL AND GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 7500 FT. TD, 2) TO CONSTRUCT A

DRILL PAD FT. X FT. AND A RESERVE PIT FT. X FT.

3) TO CONSTRUCT FT. X MILES ACCESS ROAD AND UPGRADE FT.

X MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

2. Location and Natural Setting (existing environmental situation)

The location falls in rolling hills approx 2 miles west of Ferron Utah. The surface is mostly Mancos shale w/ very sparse vegetation consisting of mostly desert shrubs and few native grasses. The well site is crossed by several small drainages that will have to be diverted around the location.

The wildlife is the usual checkerboard. Small mammals and birds w/ no known endangered species.

There are no known Historical sites that would be effected and no evidence of archeological sites was noted.

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6)

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) No nearby locations could be found that would justify this action.

5. Adverse Environmental Effects Which Cannot Be Avoided

- 1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.
- 2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.
- 3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.
- 4) TEMPORARY DISTURBANCE OF LIVESTOCK.
- 5) MINOR AND SHORT-TERM VISUAL IMPACTS.
- 6)

6. Determination

(This requested action ~~does~~ (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected

11-30-76

Inspector

*[Signature]*

*[Signature]*

U.S. Geological Survey,  
Conservation Division  
Salt Lake City District  
Salt Lake City, Utah





# United States Department of the Interior

GEOLOGICAL SURVEY  
Conservation Division  
8440 Federal Building  
Salt Lake City, Utah 84138

## CIRCULATE TO:

DIRECTOR	-----	<input checked="" type="checkbox"/>
PETROLEUM ENGINEER	-----	<input checked="" type="checkbox"/>
MINE OPERATOR	-----	<input checked="" type="checkbox"/>
ADMINISTRATIVE ASSISTANT	-----	<input checked="" type="checkbox"/>
ALL	-----	<input type="checkbox"/>

RETURN TO *Kathy D.*  
FOR FILING

January 20, 1978

Mr. M. D. Quigley  
Fossil Petroleum Corporation  
8350 N. Central Expy., Suite 2160M  
Dallas, Texas 75206

Re: Well Ferron Creek No. 1  
NE $\frac{1}{4}$  NE $\frac{1}{4}$ , Sec. 13, T.20S, R.7E  
Emery County, Utah  
Lease U-16870

Dear Mr. Quigley:

By letter dated September 26, 1977, you advised this office that the referenced well would not be drilled until further development takes place nearer to the crest of the anticline. As of this date we have had no further information from you; therefore, the Application for Permit to Drill this well, which was approved February 17, 1977, is rescinded effective as of this date without prejudice.

Any surface disturbance associated with this approved application must be restored in accordance with the approved surface use plan prior to release of bonding.

If you should again desire to drill at this location, please submit a new Application for Permit to Drill.

Sincerely yours,

E. W. Guynn  
District Engineer

cc: Chief, Br. of L&M, BLM, SLC  
Utah State OGM